

Abstract

In an electric pump unit in which a single shaft (main shaft 4) functions both as a rotation shaft of a pump section and that of a motor section, a rotor of a motor has a structure in which a magnet 6 is embedded in a rotor core 5 (IPM structure). According to the configuration, in the electric pump unit of the invention, it is not required to dispose a protective ring in the periphery of the rotor core 5. In addition, rotation of the main shaft 4 can be supported by the inner-diameter face of the stator core 7. Accordingly, the electric pump unit of the invention can be configured as an electric pump unit which is lighter, more compact, and more economical as compared with a conventional product.